SMart Agriculture using Lasers and Artificial Intelligence

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Improve disease prediction

Metrological Data +
AgroMétéo Model
(www.agrometeo.ch)

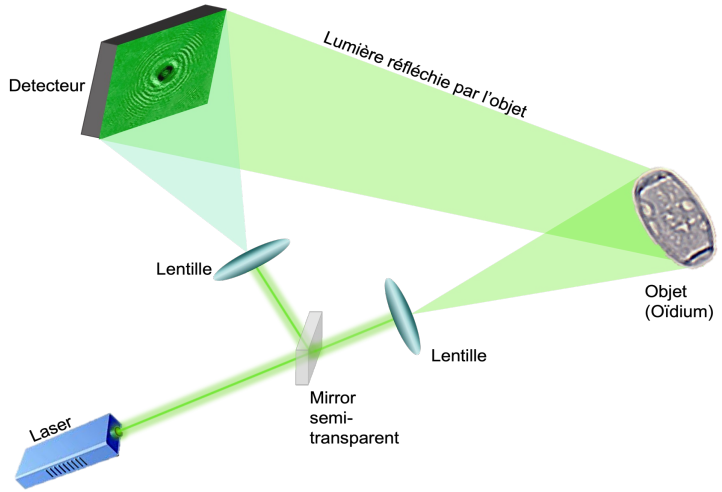
+

Surveillance of
disease in field

Decision support for the winemaker: treat only where and when it is necessary!

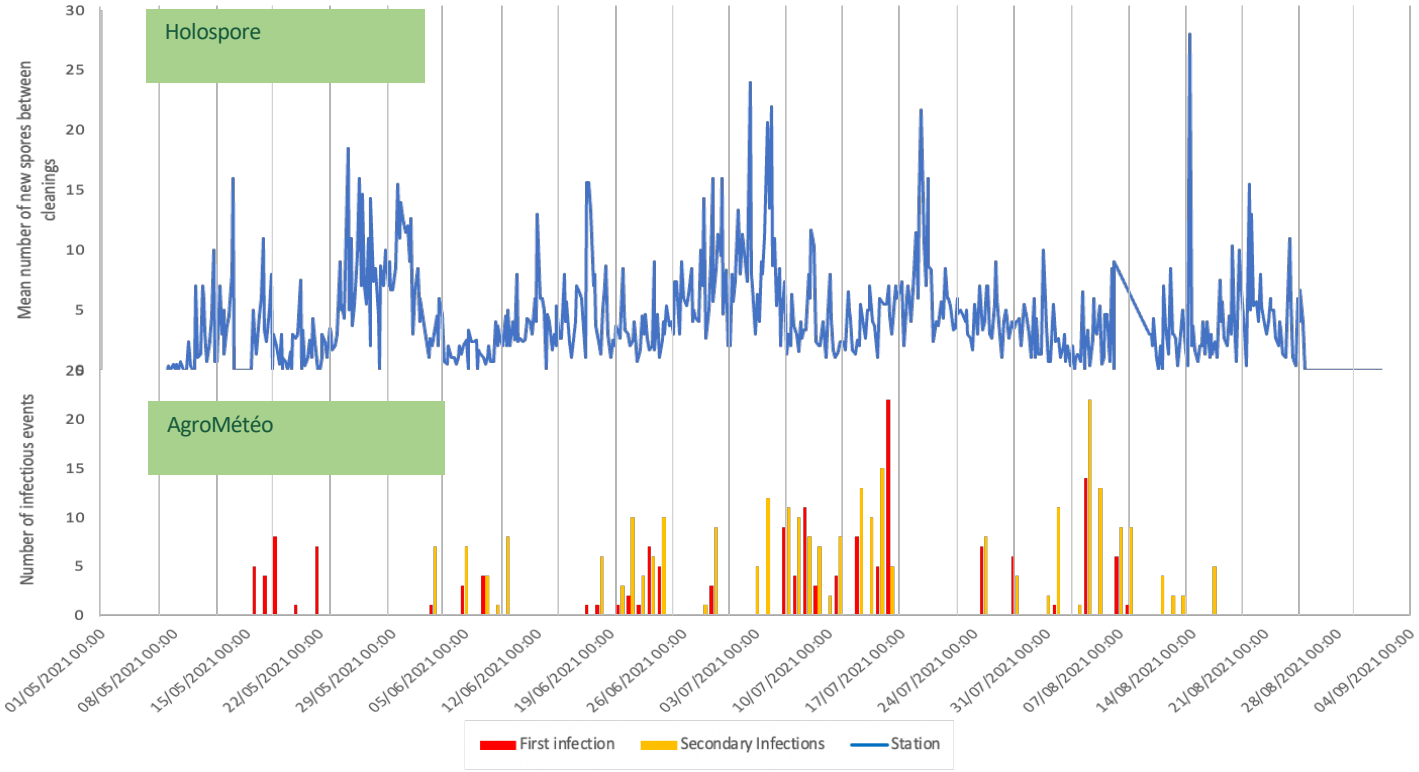
Innovation of the Bridge projet :
PRESENCE OF PATHOGENS

Holography Principle



2021 Campaign Results

- **Complementarity** between the AgroMétéo model
- Sensibility to **daily fluctuations** and **one-off events**
- **Successful identification of the primary infection (from ground)**



- Using **deep learning neural networks** to identify downy and powdery mildew spores automatically

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